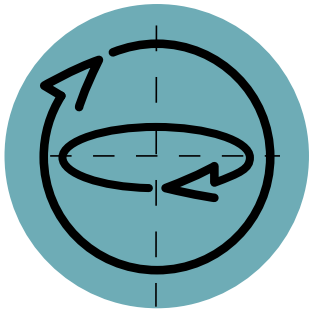
Operating Instructions



Biaxialmixer

BIAX 22/33/44
ROTA 20/30
DYNAX 400

GB - Englisch

Edition G1.2-10

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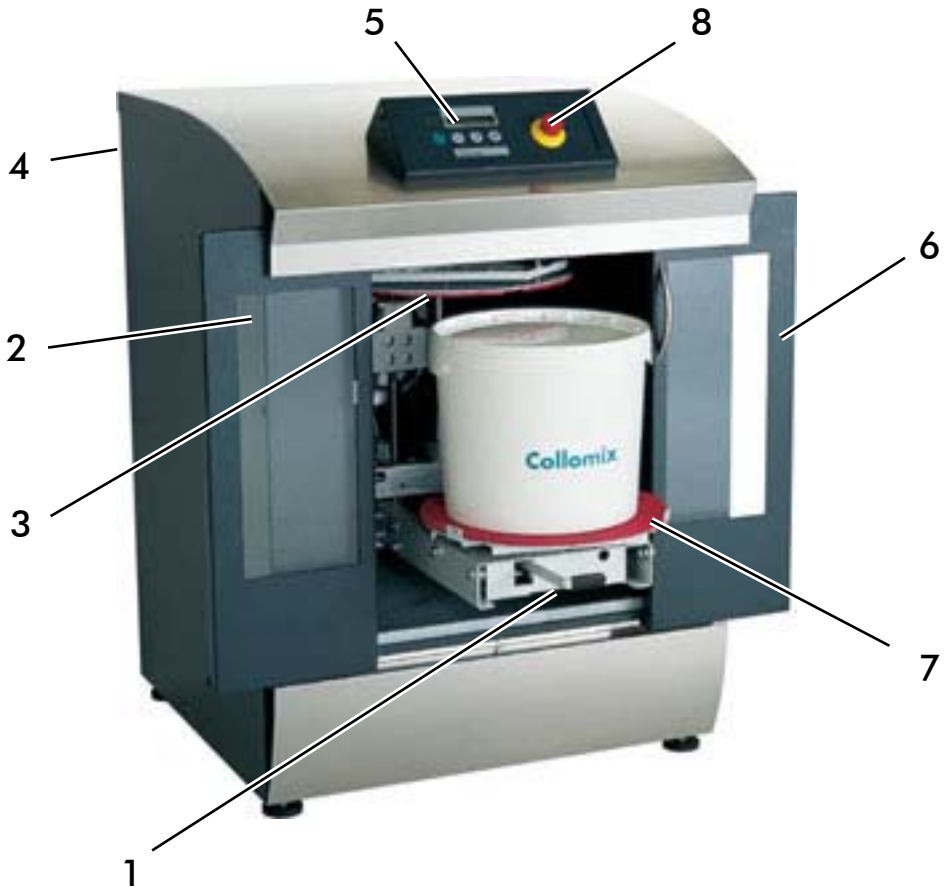
1. Layout drawings

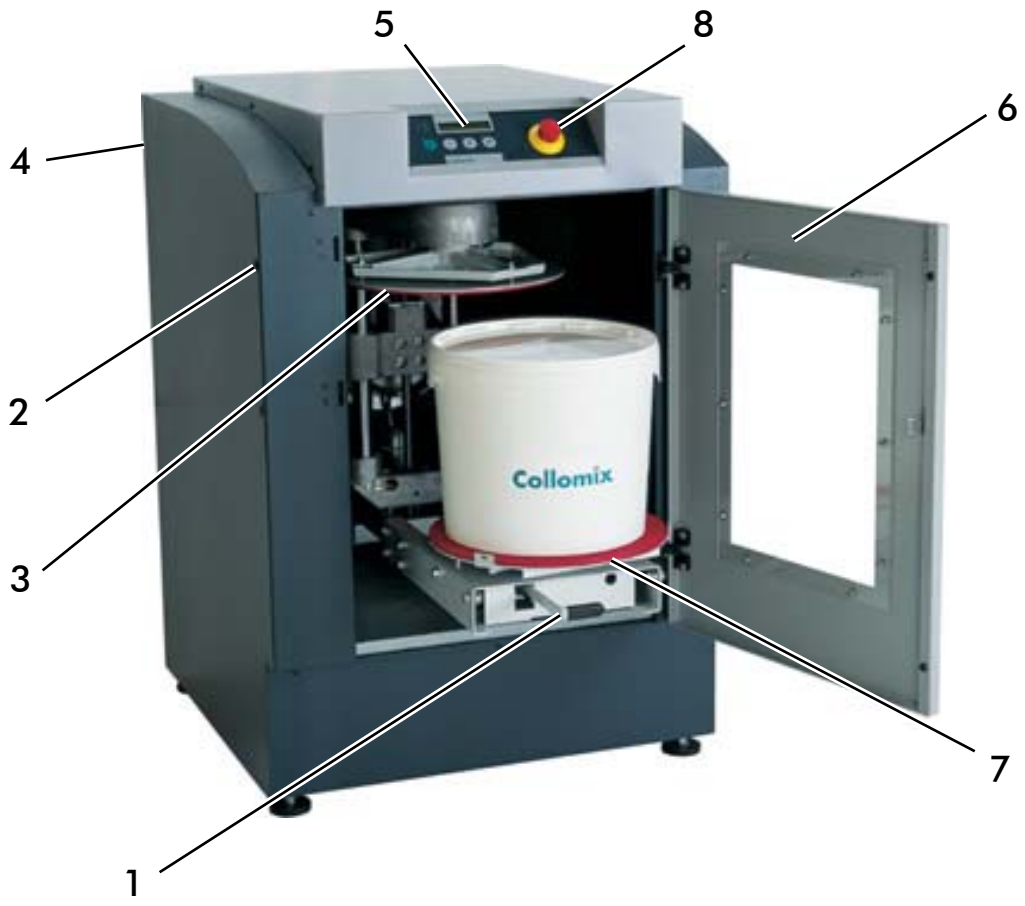
1.1. Biaxial mixer with sliding door BIAX 22/33/44 and DYNAX 400



Machine components

1. Locking lever	5. Control panel
2. Manual door release	6. Sliding door
3. Top clamping table	7. Bottom clamping table
4. Main switch (at the rear)	8. Emergency Stop

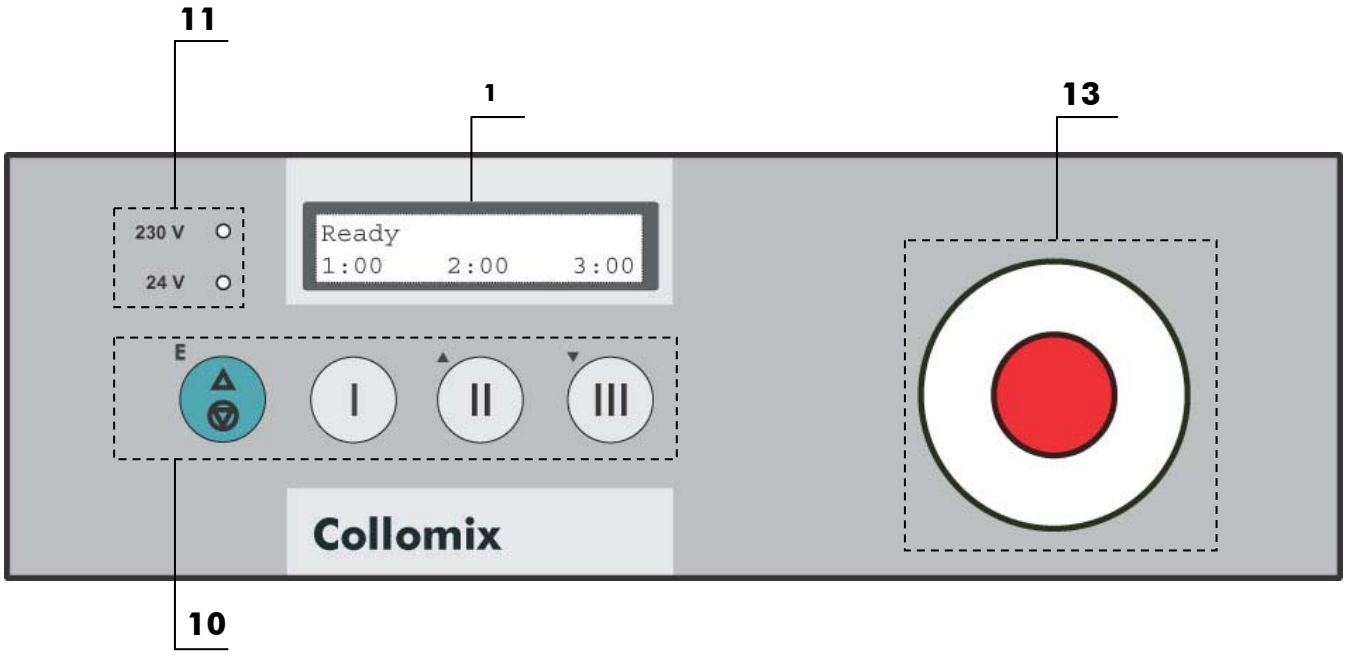
1.2. Biaxial mixer ROTA 20/30



Machine components

1. Locking lever	5. Control panel
2. Manual door release	6. Door
3. Top clamping table	7. Bottom clamping table
4. Main switch (at the rear)	8. Emergency Stop

1.3. Control and display components



10. Control buttons

E	**Button E**	• **OPEN the mixing unit** • **QUIT stand-by mode** • **STOP mixing cycle prematurely** • **ACKNOWLEDGE messages**
I	**Button I**	• **Mixing cycle I** (works setting 1:00 minutes)
II	**Button II**	• **Mixing cycle II** (works setting 2:00 minutes)
III	**Button III**	• **Mixing cycle III** (works setting 3:00 minutes)

11. Display for 230V mains voltage and 24V control voltage

12. LCD Display

13. EMERGENCY STOP button

2. General information

The ROTA/BIAX is a stationary mixer for closed, tightly closing, round, rectangular and oval containers made of metal or plastic. It can be used to mix paints, master batches, house paints, industrial paints and plasters as well as other low-viscosity materials.

Practical applications are to be found in the wholesale and retail paint trade, in the paint, lacquer and chemical industries, and many other related sectors. This shaker is particularly ideal as a component in paint dosing systems.

The clamped container rotates simultaneously about its longitudinal and transverse axis at 2 different speeds, which are adapted to the material in question.

The required mixing time and the suitability of the container are to be determined before attempting to use the shaker.

This manual is intended for persons who operate the machine.

3. For your safety

Although the machine has been developed, manufactured and tested in accordance with fundamental safety requirements, an element of risk is still present!

- Therefore, read this manual before you work with the machine
- Keep this manual within immediate reach of the machine

3.1 Pictograms and symbols used in this manual

The "caution" symbol is used to indicate a situation in which persons are at risk of suffering physical injury. The warning must be heeded at all costs.

The "stop" symbol is used to indicate a situation in which the machine is at risk of being damaged.

The "hazardous electric voltage" symbol is used to indicate live components that may pose a risk to life and limb.

Those parts of the manual that are important for the correct and safe operation of the machine are printed in bold type.

3.2 Proper use

The machine must not be operated in any way other than described in this manual. The term 'improper use' applies in particular to the following:

- Operation with defective or missing parts.
- The bridging or deactivation of any safety devices.
- Operation of the machine in areas with a potentially explosive atmosphere.
- The use and installation of non-original replacement parts.
- Running the machine for too long, which can potentially lead to the mixing container bursting.

The consequences of improper use can be personal injury to the user or third party, as well as material damages to the appliance or mixing material.

3.3 General safety instructions

Observe the electrical regulations in force as well as the additional instructions listed in this manual when you install the machine. Installation and use of the machine for the first time must be carried out by a trained specialist.

The machine is to be used only by persons who are acquainted with the working principles of the machine and also with the safety and accident prevention regulations in force in your country.

Check that the machine is in the proper condition and that all parts are in good working order before beginning with your work. Do not operate the machine with any defective or missing parts.

Any maintenance work or repairs must only be carried out by qualified personnel. Before performing any maintenance work or repairs be sure to disconnect the machine from the power supply by pulling out the power plug. Use only original replacement parts.

Close the machine when not in use and turn off at the main switch. Projecting parts may injure you and others.

3.4 Safety-relevant components

Closed housing

The housing is a stationary safeguard and partition that can only be opened with the use of tools.

Machine door with interlock

The door is an interlocking safeguard and partition. It is impossible to start the machine when the door is open. The door is not unlocked until after the mixing cycle is ended and the mixing container released.

Latching magnet for the mixing unit

The mixing unit is locked in vertical position by a magnetically actuated latching pin. When the magnet is deactivated, the latching pin is pushed back by spring force and releases the mixing unit.

Clamping table switch

A microswitch on the upper clamping table monitors whether a container is clamped in the mixing unit. It is impossible to start the mixing cycle when no container is clamped in place. For the switch to trigger a switching pulse it has to be pressed up by the spring-mounted upper clamping table.

Emergency Stop function:

With the Emergency Stop function you can

- reliably interrupt the control voltage supply so that the machine is unable to move.
- bring the machine to a halt when it is running.

4. Using the machine for the first time

4.1. Installing the machine – Transport notes

Your biaxial mixer is delivered in reusable cardboard packaging on a wooden pallet. Please immediately check the packaging when received, as well as the appliance during unpacking, for any visible signs of external damage. Keep all parts of the original packaging for any necessary return transport.

Use a suitable hoist to lift the machine off the pallet. Fit the door handle with the supplied mounting materials.

Place the machine on firm, level ground. Slight unevenness can be compensated with the height-adjustable machine feet (SW17+19).

4.2. Moving the machine

The mixer has two transport rollers on the bottom of the housing. These transport rollers can be made to protrude out of the mixing compartment by turning two screws in the base plate of the mixing compartment.

Before moving the ROTA 20/30 you must remove the door. To do so, simply pull out the two hinge pins.

- Use a cordless screwdriver (counter-clockwise rotation) or some other suitable tool size SW 17 to turn out the transport rollers on both sides of the machine.
- Carefully tilt the mixer and move it.
- When you are finished moving the machine, turn the transport rollers back in and compensate any unevenness with the height-adjustable feet.

Screw →

Turning out the rollers →

Moving the machine

It is necessary to open the door in order to be able to firmly grip the machine during transport.

4.3. Activating the PERMA lubrication system

The machine comes with a PERMA© long-time lubricator which is to be installed before you use the machine for the first time. Proceed as follows:

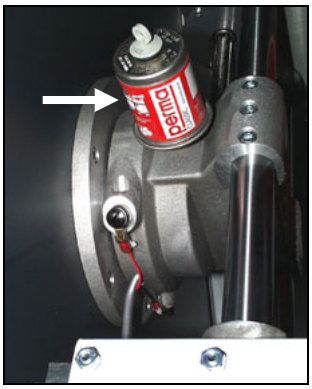
For an easier installation, first open the mixing unit completely.. The lubrication nipple on the hub is on the left side.

Activate the PERMA cartridge by turning the grey activation screw into the cartridge until the holding clip is torn off completely. Remove also the black cap at the top of the cartridge.

Screw the cartridge into the adapter which was fitted to the hub at the factory..

Write the date of installation on the cartridge. The lubrication is guaranteed for approx. 1 year.

Please read the accompanying original PERMA documentation.



PERMA© lubrication

4.4. Trial run

It is best to carry out a trial run with an empty mixing container when you are starting up the machine for the first time or after carrying out maintenance work or repairs.

Remove all tools and any other loose items from the inside of the machine.

If the machine wobbles while it is working, adjust the machine feet to compensate the differences in height.

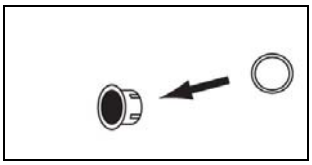
It is prohibited to operate the machine on its shipment pallet.

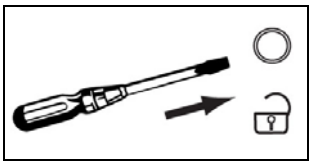
4.5. Door interlock system

The mixer is equipped with a door interlock system which locks the door as soon as the mixing cycle is started.

<u>Releasing the safety door interlock</u>

- Remove the plastic plug cap from the left side of the machine.
- Use a screwdriver to push the release button of the door interlock
- Open the door.





Do not start the machine if any safety devices are defective or modified!

Do not open the machine by hand until the mixing unit has come to a standstill. Some machine parts run on after the machine is switched off – Risk of injury!

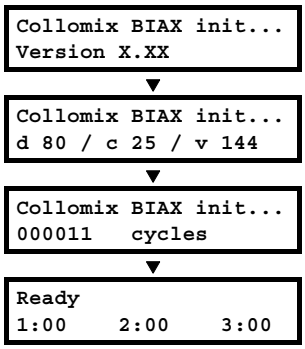
5. Operation

5.1. Switching on the machine

The machine is switched on with the main switch (4).

Switch-on is followed by an initialization routine. The word ***READY*** appears in the display when initialization is completed.

If any errors occur during initialization they will be indicated in the display in plain text. For further information see 6 Messages and troubleshooting.



5.2. Loading the container

Open the door (if necessary cancel **"STAND-BY" mode** by pressing **button E**).

Unlock the lower clamping table (7) by pressing the locking lever (1) to the left and pulling it forward.

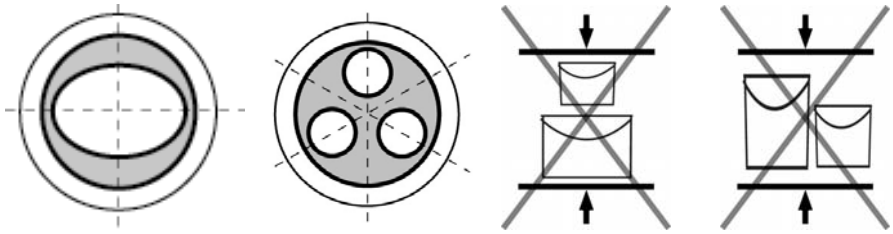
If the mixing container is higher than the position of the clamping table, press **button E** to widen the mixing unit.

Secure the container handle with a rubber band or adhesive tape and place the mixing container on the mixing table in central position.

It is also possible to mix several identical containers simultaneously. In this case, make sure the containers are placed on the clamping table in a symmetrical arrangement.

Push the clamping table back into the machine until it **latches in place**.

Securing the handle with a rubber band



Place container in central position

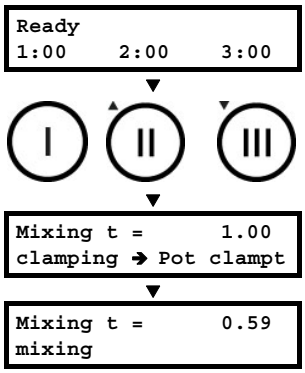
5.3. Starting the mixing cycle

Close the door (the door has to be closed to start the mixing cycle).

Start the mixing cycle by pressing one of the timer buttons I, II or III. The corresponding mixing time is indicated in the LCD display above the buttons.

The mixing container is clamped in place and the mixing cycle is started automatically.

The remaining mixing time is indicated in the LCD display as the mixing cycle progresses.



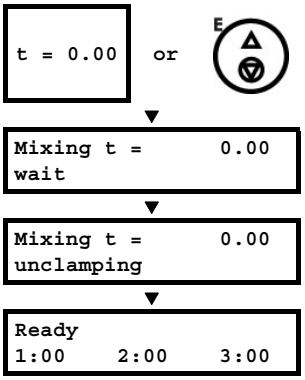
5.4. Ending the mixing cycle

The mixing unit is automatically moved to the 12 o'clock position and the clamping pressure released **when the mixing time is over**. The door is then unlocked.

You can end the mixing cycle prematurely **before the mixing time is over** by pressing **button E**. The mixing cycle is immediately ended, the mixing unit positioned, the clamping pressure released, and the door unlocked.

Unlock the lower clamping table (7) by pressing the locking lever (1) to the left and pulling it forward.

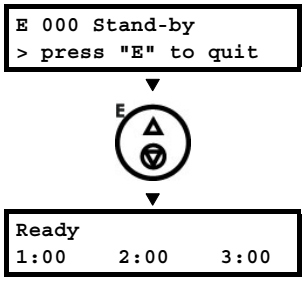
Important: When you have finished using the machine, be sure to switch it off with the main switch!



5.5. Stand-by

If approximately 60 minutes pass without the user actuating any function, the biaxial mixer will automatically switch to stand-by mode. All unnecessary consumers are switched off and the door can no longer be opened.

To quit stand-by mode, press BUTTON E. The machine will then return to base position and you are again able to open the door.



5.6. Triggering the EMEGENCY STOP function

You can press the **Emergency Stop button** to switch off the machine if ever the container develops a leak or its handle becomes loose or some other potentially dangerous situation for man or machine arises while the mixing cycle is in progress.

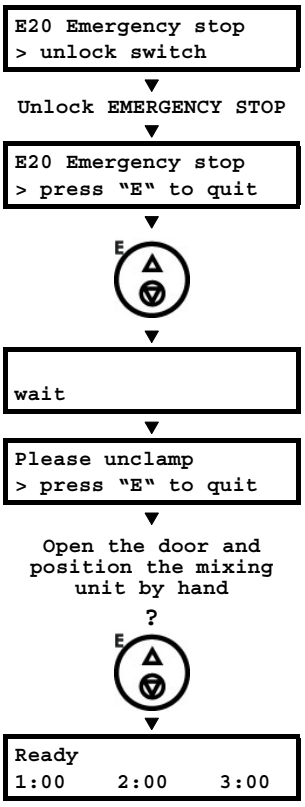
After the **EMERGENCY STOP button** is pressed, the mixing unit will coast to a standstill and remain in this position. **The mixing unit is not moved automatically to the 12 o'clock position!**

Unlock the EMERGENCY STOP button by hand and **press button E** to cancel the error message.

Open the door and **turn the mixing unit by hand** until it latches in the 12 o'clock position.

Release the clamping pressure from the mixing unit by pressing **button E** and remove the container.

The machine is in base position; mixing can be continued.



The EMERGENCY STOP button does not disconnect the machine from the mains power supply! Therefore, before performing any maintenance work or repairs always be sure to disconnect the machine from the mains by pulling out the power plug!

6. Trouble-shooting

Using the trouble-shooting tables listed in this chapter, you can check whether you are able to correct the errors yourself or whether you need to call the customer service department.

Before calling the customer service department, please make a note of the machine's serial number, the error code being shown in the display and also the status of the LEDs on the control panel. The machine's serial number can be found on the machine's rating plate (9).

6.1. Initialization

Initialization is performed each time the mixer is switched on. The following error messages may appear as a result. Please note that all maintenance and servicing jobs must be left strictly to authorized and suitably trained personnel.

LEDs	Display	Items to remedy / actions to take
230 V ○ 24 V ○	**empty**	• Check the power supply • Check the SI 3 fuse • Check the connector / cable of the control pcb
230 V ● 24 V ●	**empty**	• Check the connector / cable of the display pcb • The display is defective • The control pcb is defective
230 V ● 24 V ○	E010 door open > Close door	• Check the 24 V fuse • Check the connector / cable of the transformer • The transformer is defective
230 V ● 24 V ●	E010 door open > Close door	• Door open • Check the connector / cable of the door switch • The door switch is defective
230 V ● 24 V ●	E020 emergency stop > press "E" to quit	• EMERGENCY STOP actuated • Check the connector / cable of the EMERGENCY STOP • EMERGENCY STOP switching element is defective
230 V ● 24 V ●	Collomix BIAX init.. E025 door not locked	• Door unlocked by hand • Check the door interlock system • Check the connector / cable of the door interlock system
230 V ● 24 V ●	E060 not unclamped > press "E" to quit	• Container already clamped, unclamp by hand • The mixing unit is not in the 12 o'clock position • Check the clamping table proximity switch • Check the connector / cable of the clamping table proximity switch
230 V ● 24 V ●	E080 MU unlocked > press "E" to quit	• Latching pin blocked • Check the connector / cable of the mixing unit magnet • The mixing unit magnet is defective • The mixing unit is not in the 12 o'clock position

All maintenance and servicing jobs must be left strictly to authorized and suitably trained personnel. This applies in particular to work performed with the housing open.

6.2. Error messages

The following table provides an overview of possible errors and their remedies. Please note that all maintenance and servicing jobs must be left strictly to authorized and suitably trained personnel. This applies in particular to those jobs printed on a **gray** background which have to be performed with the housing open.

Fault	Machine status	Items to remedy / actions to take
E000 Stand-by	• 60 minutes have passed without the user actuating any function; the machine is in stand-by mode	• Press button E to cancel stand-by mode
E010 Door open	• The door has been opened	• Close the door
	• The door is closed and the LED for 24V is not on	• Check the fuse for 24 V • Check the 24 V circuit • Check the transformer
	• The door is closed and the LED for 24V is on	• Check the door interlock system • Check the lead/connector to the door interlock
E020 Emergency stop	• EMERGENCY STOP actuated	• Release the EMERGENCY STOP
	• EMERGENCY STOP not actuated	• Check the EMERGENCY STOP switching element • Check the lead/connector to the EMERGENCY STOP
E025 Door not locked	• Door unlocked by hand	• Lock the door by hand
	• Door not unlocked by hand	• Check the door interlock system • Check the lead/connector to the door interlock
E030 Pot not found	• There is no container in the mixing unit	• Load a container
	• A container is loaded in the mixing unit	• The container is too small • Check the clamping table switch • Check the programmable cam
	• The threaded spindles are dirty	• Clean and lubricate the threaded spindles
E040 Max open	• The mixing unit is fully open	• Note that the maximum container height is 400mm
	• The mixing unit is not fully open	• Clean and lubricate the threaded spindles Clean and lubricate the guide columns
E050 Pot defective	• The container is defective	• Press button "P" to reinitialize the machine • Correct the clamping pressure
	• The container is not defective	• Check whether the clamping table / clamping table switch moves smoothly • Check the lead/connector to the "clamping" proximity switch • The "clamping" proximity switch/programmable cam/ clamping table microswitch or control pcb is defective

Fault	Machine status	Items to remedy / actions to take
E060 not disclamped	• The container is clamped	• check clamping motor, brushes and control pcb
	• The container is not clamped	• The mixing unit is not at 12 o'clock position, move by hand
		• Check whether the clamping table / clamping table switch moves smoothly • Check the lead/connector to the "clamping" proximity switch
E070 MU locked	• Latching pin blocked	• The latching pin is blocked – clean and lubricate, replace if necessary
	• Latching pin released	• Check the lead/connector to the switch of the mixing unit magnet • The switch of the mixing unit magnet is defective
E080 MU unlocked	• Latching pin blocked	• The mixing unit is not 12 at o'clock position, move by hand
		• Check the lead/connector to the switch of the mixing unit magnet • The switch of the mixing unit magnet is defective
	• Latching pin released	• The latching pin is blocked – clean and lubricate, replace if necessary • Check the lead/connector to the mixing unit magnet • The mixing unit magnet is defective
E120 Speed too low	• The mixing unit rotates	• Check the lead/connector to the "position" proximity switch • The "position" proximity switch is defective
	• The mixing unit does not rotate	• Check the fuse for SI 2 motor • Check the lead/connector to the motor • The motor / rectifier or control pcb is defective
E130 Speed too high		• Decrease the motor speed

The actions printed on a **gray** background have to be performed by authorized and suitably trained personnel.

7. Maintenance and cleaning

Regular maintenance is necessary to ensure that the machine remains in good working condition at all times. If the machine is in constant use, it is important to lubricate the most important parts in accordance with the schedule described below.

How often you repeat the maintenance depends on how long the machine is operated.

Always pull out the power plug before carrying out any maintenance work.

7.1. Inspections

Check all safety-relevant parts of the machine before beginning with your work. Arrange for authorized personnel to replace defective or damaged parts before you work again with the machine.

7.2. Cleaning

If any material escapes from the mixing container when it is inside the machine, remove it immediately. Use a rag or a spatula. Take care not to damage any connecting leads or sensors.

Dirty threaded spindles can be cleaned with a rag or a wire brush. When you have finished cleaning the threaded spindles, lubricate them again with **Molycote BR 2 Plus**.

Important! Never clean the machine with a **high-pressure cleaner** or the like. This could wash the lubricating grease out of the ball bearings, leaving them to run dry. This will result in serious damage. Ball bearings which have run dry **must be replaced immediately!**

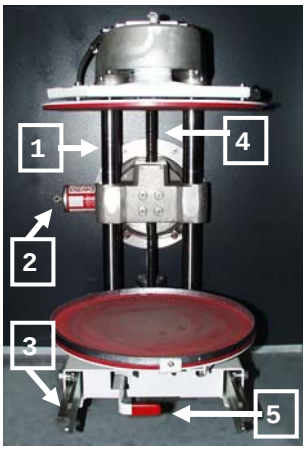
7.3. Maintenance

Every week:

- Remove any dirt from the machine.
- Apply a thin coat of lubricating oil at the two guide columns of the mixing unit.

Every 6 months:

- Check the PERMA lubricating cartridge (2) and replace it when necessary
- Lubricate the threaded spindle (4) and the spindle shaft with Molykote BR 2 plus.
- Check that the lock pin at the mixing unit magnet moves smoothly.
- Check the tension of the V-belt. Replace the V-belt if it is worn or damaged.
- Check that the locking lever (5) moves smoothly and lubricate lightly with grease.
- Check that the bottom clamping table and the slide (3) move smoothly. Remove any dirt.
- Check that all ball bearings move smoothly. Ball bearings are to be found on the two clamping jaws, on the drive shaft at the transmission gear and on the clamping tables.
- Check that the door pull is in good working condition.
- Check that the door lock is in good working good.
- Check the degree of wear on the carbon brushes. Minimum length is approx. 9 mm.



1 Guide columns
2 PERMA cartridge
3 Slide pull out mechanism
4 threaded spindle
5 Locking lever

7.4. Maintenance checklist

Maintenance checklist for BIAX 22/33 - ROTA 20/30 - BIAX 44 – DYNAX 400		
Machine number	***Counter total:***	***Date of maintenance:***
Location of the machine		
Maintenance technician		

Cleaning the machine

Clean the inside and the outside of the machine	
Remove paint residues from the spindle and the spindle shaft with a steel brush	
Remove paint residues from between the upper clamping table and the clamping table carrier.	

Inspections

Check the drive belt for wear and tension.	
Check that the latching pin on the mixing unit magnet moves smoothly.	
Check that the locking lever moves smoothly and lubricate it with a little grease.	
Check that the slide with the clamping table moves smoothly. Remove any dirt.	
Check all ball bearings to see that they move smoothly. There are ball bearings on the slide pull-out, the two clamping jaws, the transmission drive shaft and the clamping tables.	
Check that the door pull-out is in good working orde.	
Check that the door lock works. A special key is supplied to release the safety door lock. See **Fehler! Verweisquelle konnte nicht gefunden werden. Fehler! Verweisquelle konnte nicht gefunden werden.** for a description.	
Check the state of wear of the carbon brushes. They should have a minimum length of approximately 9 mm.	
Bevel gears must always be replaced in complete sets.	

Lubricating the machine

Check the amount of PERMA lubricant; if necessary, replace the cartridge.	
Lubricate the threaded spindles and the spine shaft with MOLIKOTE BR2+.	
Brush a little lubricating oil on the guide columns of the mixing unit.	
Brush a little lubricating oil on the latching pin.	

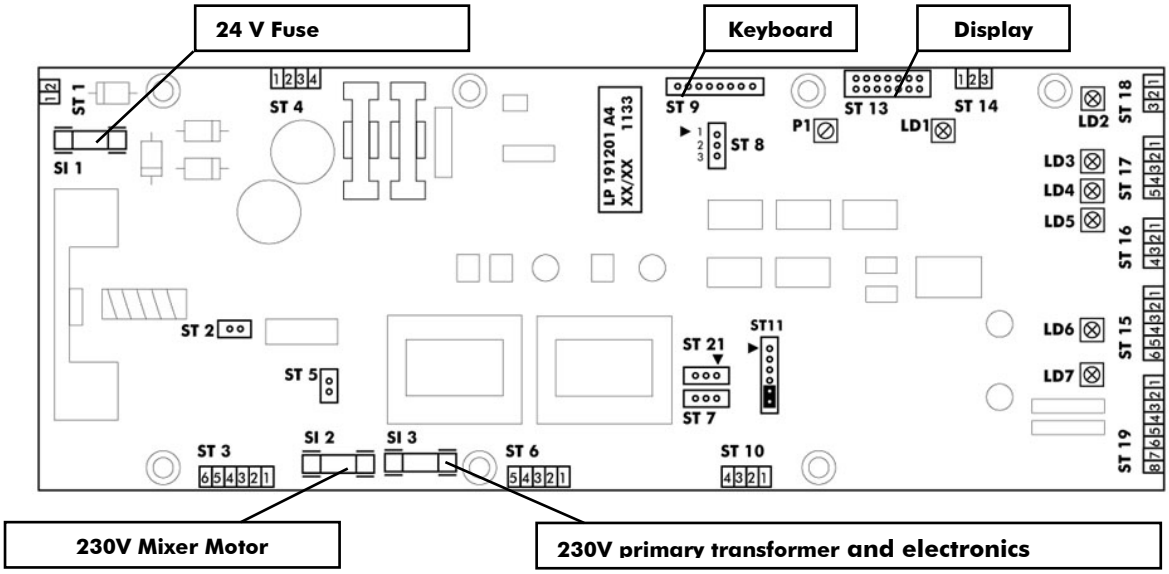
Miscellaneous

Replace the fuses on the pcb: S1, S2 = 6.3 AT 250V; S3 = 4.0 AT 250V (use only sand-filled, flow fuses)	
Add more spare fuses as required	
Carry out a function test with a large and a small container.	

Comments

Date:	***Signature of the maintenance technician:***

7.5. Layout of the control system



Fuses:

No.	Value	Function
SI1	6.3A T	24 V fuse
SI2	6.3A T	230V mixer motor
SI3	4.0A T	230V primary transformer / electronics

Connector assignment:

ST 1	Lead	Function
1	violet	24V AC from transformer
2	violett	

ST 3	Lead	Function
1	white	Speedometer
2	white	
3	blue	Mixer motor
4	--	
5	--	
6	black	

ST 4	Lead	Function
1	blue	Clamp motor
2	--	
3	--	
4	red	

ST 6	Lead	Function
1	brown	230V AC to transformer
2	brown	
3	Schwarz	L1
4	Blau	N Netzeingang
5	Grün/gelb	PE

ST 10	Leitung	Funktion
1	weiß	NOT-AUS
2	--	
3	--	
4	weiß	

ST 14	Lead	Function
1	brown	"Clamp" proximity switch
2	black	
3	blue	

ST 15	Lead	Function
1	4	Door magnet
2	5	
3	1	+ 24 V
4	2	Door contact signal
5	--	
6	3	Door locked signal

ST 16	Lead	Function
1	green	Mixing unit magnet
2	green	
3	gray	Mixing unit magnet switch
4	gray	

ST 18	Lead	Function
1	brown	"Position" proximity switch
2	black	
3	blue	

ST 19 [2]	Leitung	Funktion
3	white	Turn rightFU
4	white	
7	red+	Speed FU
8	blue -	

Jumper assignment:

ST2	Closed for BIAX/ROTA
ST5	Closed for VIBA
ST8	1-2 Service / 2-3 Operation

LED signals:

Display	Meaning
LD 1	„Clamp" proximity switch
LD 2	„Position" proximity switch
LD 3	Switch magnet mixing unit
LD 4	door closed
LD 5	door locked
LD 6	magnet mixing unit
LD 7	door magnet open

1 not by Dynax 400 / 2 only by Dynax 400

8. Annex

8.1. Technical data

Type of machine:	*ROTA 20*	*ROTA 30*	*BIAX 22*	*BIAX 33*	*BIAX 44*	*DYNAX 400*
Supply voltage:			L1, N, PE; 230 Volt/50 Hz			3~,N, PE; 400 Volt/50Hz
Rated power:	1,1 kW	1,1 kW	1,1 kW	1,1 kW	1,1 kW	2,2 kW
Fuse:	16 A	16 A	16 A	16 A	16 A	16 A
Speed/mixing unit:			app. 170 rpm			app. 130 rpm
Rec. Long-term operating weight:	25 kg	30 kg	25 kg	30 kg	40 kg	40 kg
Max. container weight:	- 35 kg	- 35 kg	- 35 kg	- 35 kg	40 kg	40 kg
container height:	60 - 350 mm	60 - 400 mm	60 - 350 mm	60 - 400 mm	110 - 450 mm	110 - 450 mm
Max. container base area:	- 330 mm	- 330 mm	- 365 mm	- 365 mm	365 mm	365 mm
Oval containers $ø_b$ 365 $ø_t$ 405 mm	optional	optional	included	included	included	included
Noise emission:	< 65 dB (A) measured according toDIN 45.635					
Machine weight:	192 kg	207 kg	206 kg	217 kg	235 kg	234 kg
Dimensions (w x d x h):	730 x 800 x 1060 mm	780 x 800 x 1090 mm	730 x 840 x 1090 mm	780 x 840 x 1120 mm	830 x 857 x 1112 mm	830 x 857 x 1112 mm

8.2. Warranty

The manufacturer undertakes to provide, as part of the general terms of supply and delivery, a twelve-month warranty. This warranty applies to single-shift operation and is counted from the date of initial start-up. It covers all defects arising from faulty material or workmanship. Please note that all warranty claims must be accompanied by the original delivery note or initial start-up report.

All essential warranty repair work must only be carried out by adequately trained service engineers or by third parties with express prior authorization from Collomix. The carrying out of unauthorized repairs may render the warranty null and void.

Please return any defective parts or machines carriage-paid to our factory. Collomix reserves the right to decide on whether cost-free parts replacement is applicable. Parts and labor covered by the warranty will be supplied free of charge. The warranty does not cover travel costs, expenses or possible overnight accommodation resulting from warranty repairs carried out off our premises.

Any further responsibility, with particular reference to damage claims, including foregone profit or other material losses on the part of the customer, is expressly excluded.

Warranty and liability claims for personal or material damages are excluded if attributable to one or more of the following causes:

- Incorrect operation of the machine, as defined in the operating instructions
- Failure to observe the instructions in the operating manual with respect to set-up, initial start-up, operation and maintenance of the machine
- Faults or damage caused by excessive accumulations of dirt and/or incorrect cleaning schedules, with particular reference to leaks and damaged containers
- Operation of the machine with defective safety and/or protection devices
- Unauthorized structural modifications to the machine
- Incorrect monitoring of parts subject to wear and consumables
- Unauthorized repairs and/or the fitting of non-original spare parts
- Damage caused by the impact of foreign bodies or force majeure
- We reserve the right to make amendments as a result of ongoing advances in the technical field.

8.3. Recycling and disposal

The transport packaging consists of recyclable material. Please dispose of it accordingly.

At the end of the machine's working life, the materials used in its construction must be properly recycled. If you have any questions concerning the disposal of any materials, please contact the manufacturer.

8.4. Declaration of CE conformity

We declare herewith that this product conforms with the following standards and standard-setting documents:

DIN EN ISO 12100-1, DIN EN ISO EN 12100-2, DIN EN ISO 954-1, DIN EN ISO 14121-1, DIN EN 55011, DIN EN 61000-6-2, DIN EN 61000-4-2, DIN EN 61000-4-3, DIN EN 61000-4-4, DIN EN 61000-4-5

in accordance with the provisions of directives 2006/95/EEC, 2004/108/EC, 2006/42/EC.

Technical file at: Collomix Rühr- und Mischgeräte GmbH, Abt. Technische Entwicklung, Daimlerstr. 9, 85080 Gaimersheim, Germany

Gaimersheim, 29.12.2009

Alexander Essing
General Manager

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This declaration of conformity will lose its validity if any changes or modifications are made to the machine without the manufacturer's approval.

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